In the Claims

- 1. (currently amended) A computer implemented method for solving a
- 2 combinatorial optimization problem including a plurality of elements and a
- 3 plurality of values, comprising:
- 4 applying a priority algorithm in a form of an ordering function to an
- 5 instance of the combinatorial optimization problem to produce an ordering
- 6 of the elements;
- 7 modifying the ordering of the elements to produce a re-ordering of the
- 8 elements;
- 9 applying a placement function to map values to the corresponding
- 10 elements of the re-ordering; and
- repeating the modifying and the applying until all elements have been
- 12 placed to obtain a solution of the combinatorial optimization problem.
 - 1 2. (currently amended) The method of claim $\underline{1}$, in which the priority
- 2 algorithm is fixed.
- 3. (currently amended) The method of claim $\underline{1}$, in which the priority
- 2 algorithm is dynamic.
- 1 4. (original) The method of claim 1, in which the re-ordering is within a
- 2 predetermined distance of the ordering.
- 5. (original) The method of claim 4, in which the distance is a Kendall-tau
- 2 distance.

- 1 6. (currently amended) The method of claim 1, in which the re-ordering uses
- 2 a decision vector, and in which the distance decision vector has one field for
- a each element of the order, each field determining a new order of the element
- 4 in the re-ordering.
- 1 7. (original) The method of claim 1, in which the re-ordering is probabilistic.
- 1 8. (new) A computer program product storing a computer program which
- 2 when executed by a computer performs a method for solving a combinatorial
- 3 optimization problem including a plurality of elements and a plurality of
- 4 values by performing the steps of:
- 5 applying a priority algorithm in a form of an ordering function to an
- 6 instance of the combinatorial optimization problem to produce an ordering
- 7 of the elements;
- 8 modifying the ordering of the elements to produce a re-ordering of the
- 9 elements;
- applying a placement function to map values to the corresponding
- elements of the re-ordering; and
- repeating the modifying and the applying until all elements have been
- placed to obtain a solution of the combinatorial optimization problem.

- 1 9. (new) A computer implemented method for solving a combinatorial
- 2 optimization problem including a plurality of elements and a plurality of
- 3 values, comprising:
- 4 applying a priority algorithm in a form of an ordering function to an
- 5 instance of the combinatorial optimization problem to produce an ordering
- 6 of the elements, in which the priority algorithm is dynamic;
- 7 modifying the ordering of the elements to produce a re-ordering of the
- 8 elements;
- 9 applying a placement function to map values to the corresponding
- 10 elements of the re-ordering; and
- repeating the modifying and the applying until all elements have been
- 12 placed to obtain a solution of the combinatorial optimization problem.
 - 1 10. (new) The method of claim 9, in which the re-ordering is within a
- 2 predetermined distance of the ordering.
- 1 11. (new) The method of claim 10, in which the distance is a Kendall-tau
- 2 distance.
- 1 12. (new) The method of claim 9, in which the re-ordering uses a decision
- 2 vector, and in which the decision vector has one field for each element of the
- 3 order, each field determining a new order of the element in the re-ordering.
- 1 13. (new) The method of claim 9, in which the re-ordering is probabilistic.